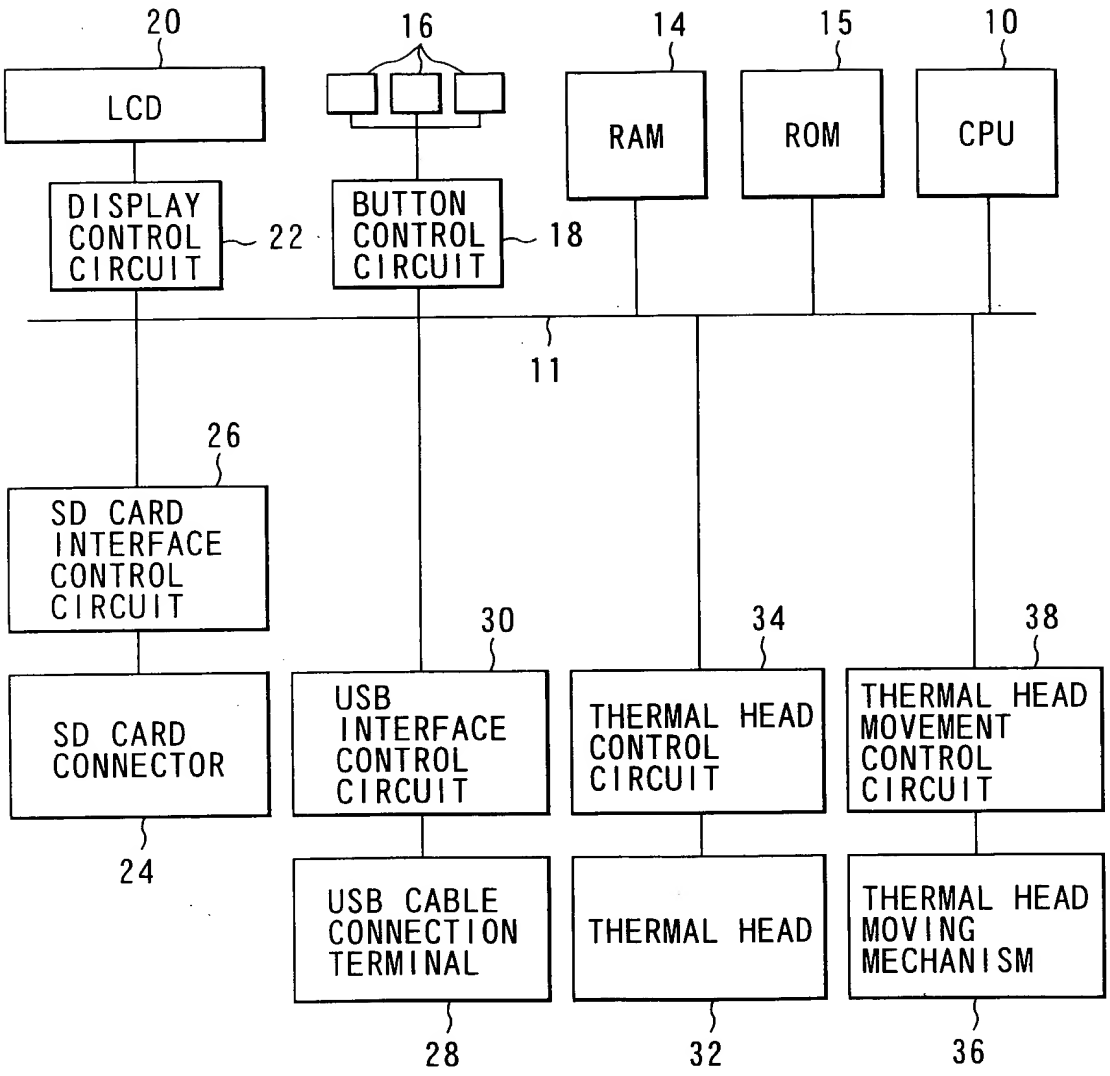

20
16
14
15
10
LCD
RAM
ROM
CPU
DISPLAY CONTROL CIRCUIT
22
BUTTON CONTROL CIRCUIT
18
11
26
SD CARD INTERFACE CONTROL CIRCUIT
30
34
38
SD CARD CONNECTOR
USB INTERFACE CONTROL CIRCUIT
THERMAL HEAD CONTROL CIRCUIT
THERMAL HEAD MOVEMENT CONTROL CIRCUIT
24
USB CABLE CONNECTION TERMINAL
THERMAL HEAD
THERMAL HEAD MOVING MECHANISM
28
32
36

FIG. 1

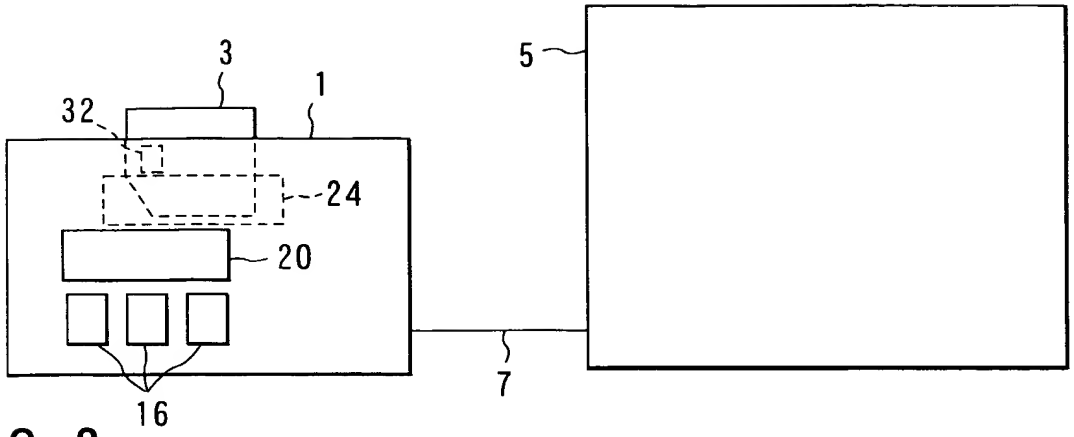


FIG. 2

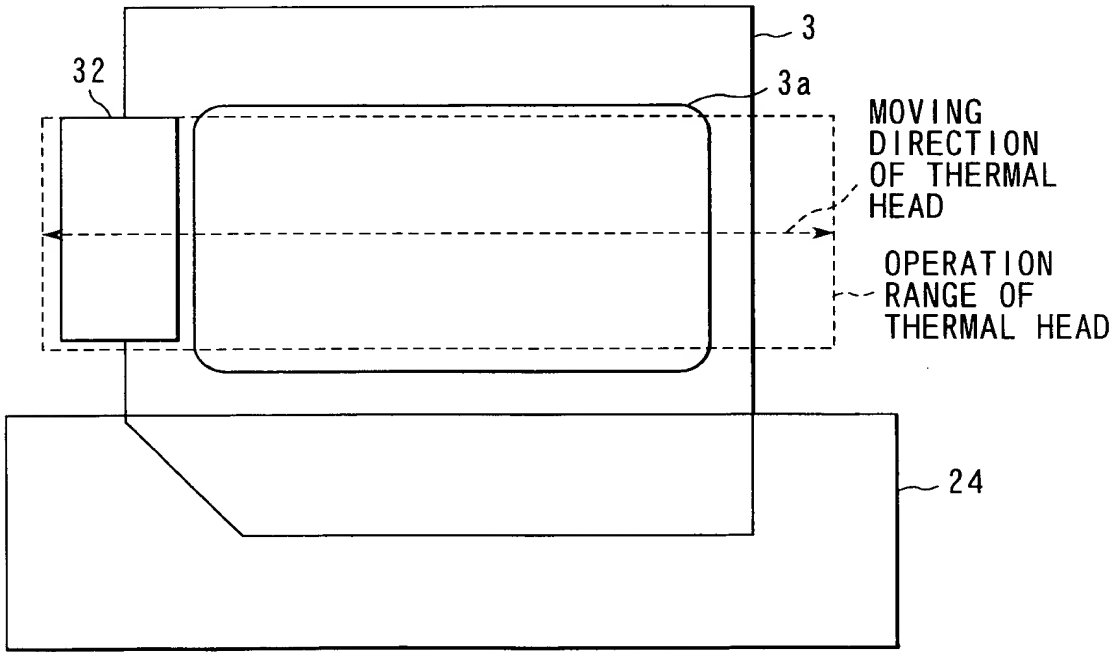


FIG. 3

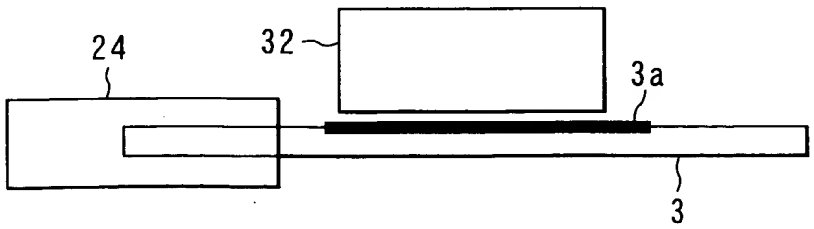


FIG. 4

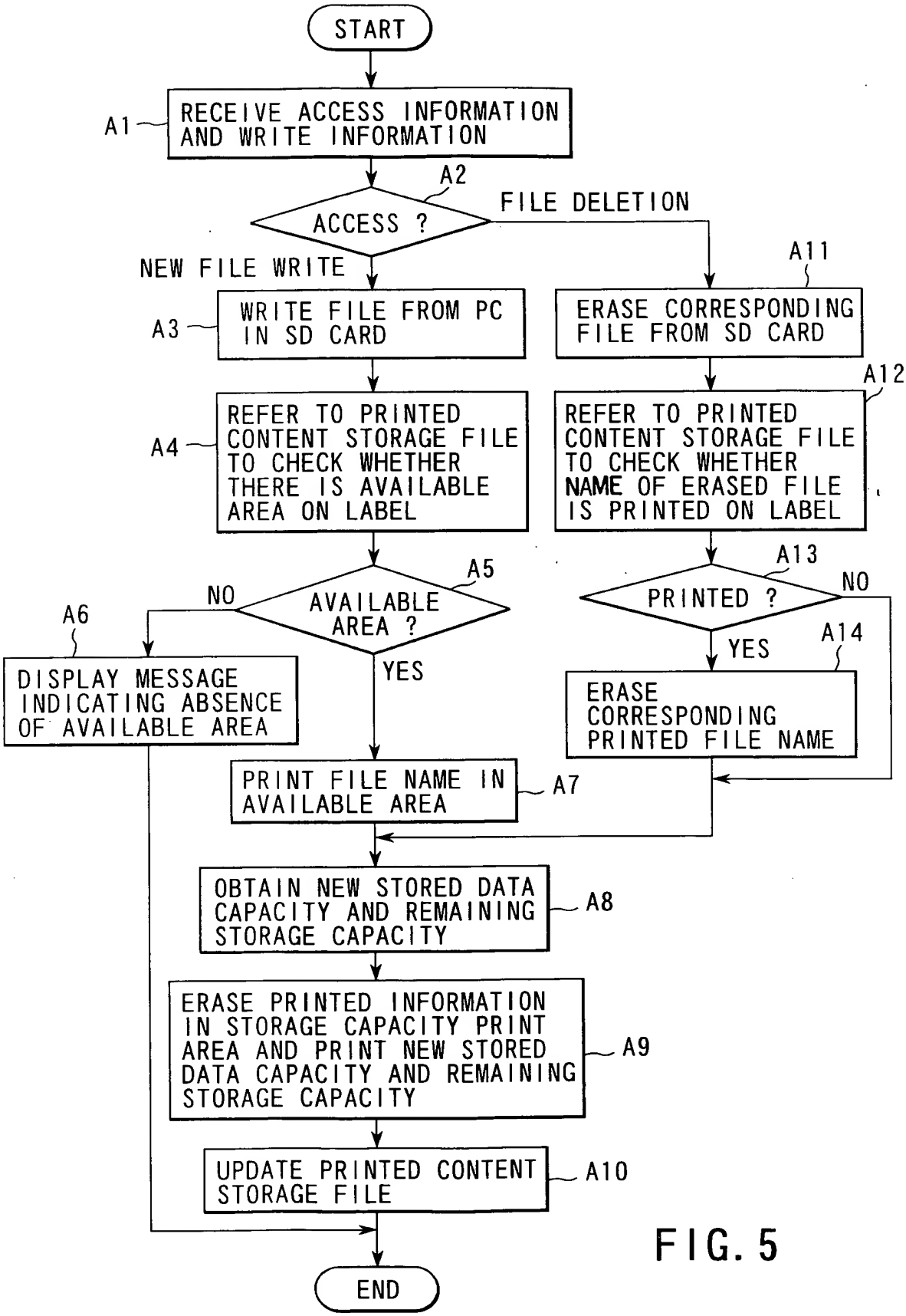

START
A1
RECEIVE ACCESS INFORMATION AND WRITE INFORMATION
A2
ACCESS ?
FILE DELETION
NEW FILE WRITE
A11
ERASE CORRESPONDING FILE FROM SD CARD
A3
WRITE FILE FROM PC IN SD CARD
A12
A4
REFER TO PRINTED CONTENT STORAGE FILE TO CHECK WHETHER THERE IS AVAILABLE AREA ON LABEL
REFER TO PRINTED CONTENT STORAGE FILE TO CHECK WHETHER NAME OF ERASED FILE IS PRINTED ON LABEL
A13
A5
NO
AVAILABLE AREA ?
PRINTED ?
NO
A6
YES
A14
DISPLAY MESSAGE INDICATING ABSENCE OF AVAILABLE AREA
YES
ERASE CORRESPONDING PRINTED FILE NAME
PRINT FILE NAME IN AVAILABLE AREA
A7
OBTAIN NEW STORED DATA CAPACITY AND REMAINING STORAGE CAPACITY
A8
ERASE PRINTED INFORMATION IN STORAGE CAPACITY PRINT AREA AND PRINT NEW STORED DATA CAPACITY AND REMAINING STORAGE CAPACITY
A9
UPDATE PRINTED CONTENT STORAGE FILE
A10
END

FIG. 5

PRINTED CONTENT STORAGE FILE

61

AREA	PRE-PRINTED FLAG	FILE STORAGE LOCATION	FILE NAME
1	1	AAAA	AAAAAAA
2	1	BBBB	BBBBBBB
⋮	⋮	⋮	⋮

62

STORED DATA CAPACITY	REMAINING STORAGE CAPACITY
21.5	42.5

63

STORAGE CAPACITY PRINT POSITION
24

FIG. 6

71 (1) AAAAAAA (2) BBBBBBB (3) CCCCCCC (4) DDDDDDD
71 (5) EEEEEEE (6) FFFFFFF (7) GGGGGGG (8) HHHHHHH
(9) IIIIIII (10) JJJJJJJ (11) (12)
72 (13) (14) (15) (16)
71 (17) QQQQQQQ (18) RRRRRRR (19) (20)
73 (21) (22) (23) (24)

74 STORED DATA CAPACITY:21.5 MBYTES
REMAINING STORAGE CAPACITY:42.5 MBYTES

FIG. 7

JP2004-145564

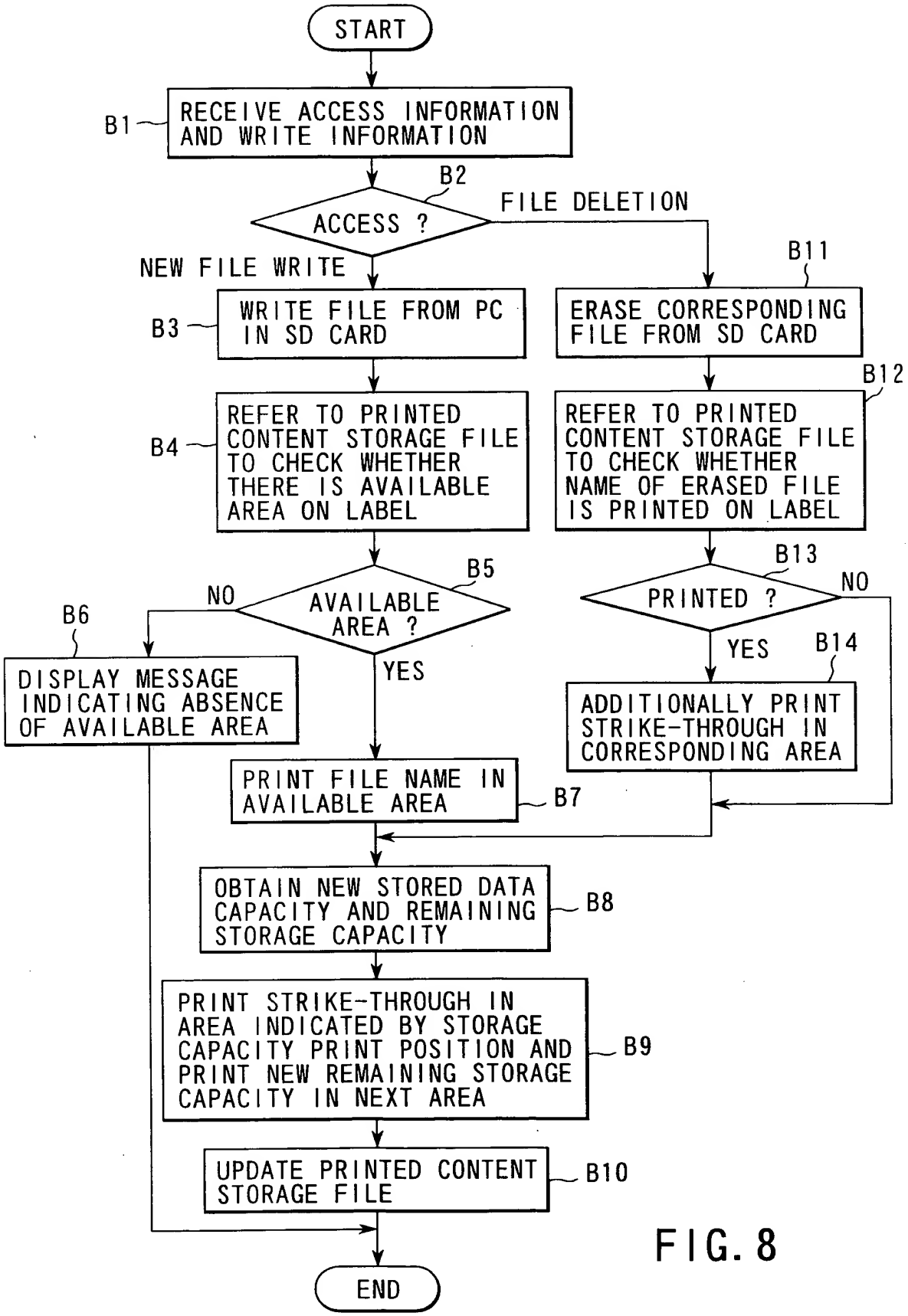
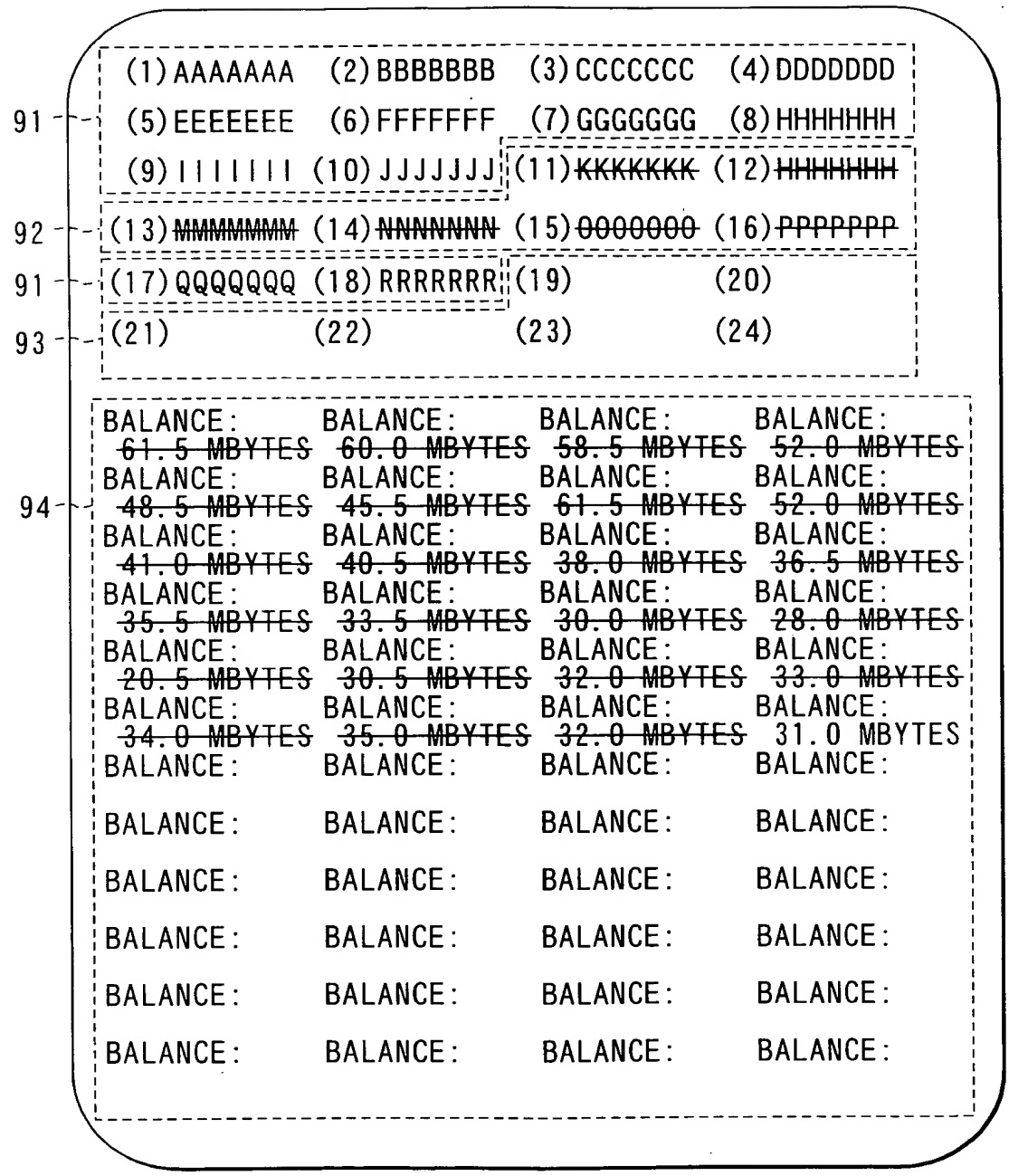


FIG. 8

US 2009/0245865 A1 Oct. 1, 2009


(1) AAAAAAA (2) BBBBBBB (3) CCCCCCC (4) DDDDDDD
(5) EEEEEEE (6) FFFFFFF (7) GGGGGGG (8) HHHHHHH
(9) IIIIIII (10) JJJJJJJ (11) KKKKKKK (12) HHHHHHH
(13) MMMMMMMM (14) NNNNNNN (15) OOOOOOO (16) PPPPPPP
(17) QQQQQQQ (18) RRRRRRR (19) (20)
(21) (22) (23) (24)
91
92
91
93
94
BALANCE: 61.5 MBYTES
BALANCE: 60.0 MBYTES
BALANCE: 58.5 MBYTES
BALANCE: 52.0 MBYTES
BALANCE: 48.5 MBYTES
BALANCE: 45.5 MBYTES
BALANCE: 61.5 MBYTES
BALANCE: 52.0 MBYTES
BALANCE: 41.0 MBYTES
BALANCE: 40.5 MBYTES
BALANCE: 38.0 MBYTES
BALANCE: 36.5 MBYTES
BALANCE: 35.5 MBYTES
BALANCE: 33.5 MBYTES
BALANCE: 30.0 MBYTES
BALANCE: 28.0 MBYTES
BALANCE: 20.5 MBYTES
BALANCE: 30.5 MBYTES
BALANCE: 32.0 MBYTES
BALANCE: 33.0 MBYTES
BALANCE: 34.0 MBYTES
BALANCE: 35.0 MBYTES
BALANCE: 32.0 MBYTES
BALANCE: 31.0 MBYTES
BALANCE:
BALANCE:
BALANCE:
BALANCE:
BALANCE:
BALANCE:
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BALANCE:
BALANCE:
BALANCE:

FIG. 9